ELECTRICAL COMMUNICATION INDEX VOLUME 55 (1980)

Subject Index

	Number	Page
Advanced Techniques for Battlefield Surveillance Radars, J. M. Colin	4	323
Analog/Digital Urban Networks, Computer Program for Optimizing the Structure of, P. A. Caballero, F. J. de los Rios, and I. Puebla	4	354
Automated System for the Aquisition of Traffic Data, L. Nombela	3	241
Bell Telephone Manufacturing Company Central Laboratory	4	372
Bidirectional Optical Link, W. K. Koester and F. Mohr	4	342
Bildschirmtext Center, Hierarchical System Control and its Application to the, R. Ertelt	4	334
Call Diverter, W. Johner	3	221
Call Processing in a Distributed Control System	S*	31
Call Simulator for Testing Trunk Equipment, Universal, R. M. Metzger and E. Staber	3	210
Call Simulator, Local, W. Johner	3	217
Centralized Translation System for an International Pentaconta Exchange, F. Laliccia and M. Mayer	3	225
Computer Program for Optimizing the Structure of Analog/Digital Urban Networks, P. A. Caballero, F. J. de los Rios, and I. Puebla	4	354
Control Elements, Network Terminals and	S*	24
Control Processor Analysis, Flexible Modeling and Simulation for, O. González Soto, J. A. García Higuera, C. Díaz Berzosa, and L. Martínez Míguez	1	26
Cost Effective Design of Local Access Networks Using Common Carrier Bulk Service Offerings, D. Minoli	2	118
Data Multiplex System, Shipboard Optical Fiber, F. Pandozy	4	304
Demand Assignment Multiple Access System for Thin Route Networks, M. Moons and T. Tack	1	70
Digital Exchange for a Wide Range of Applications	S*	10
Digital Processing Techniques for Integrated Service Networks, J. Braaten and J. Gjerløw	4	386
Digital Switching Network for Distributed Control, Expandable	S*	16
Distributed Control, Expandable Digital Switching Network for	S*	16
Distributed Control, Maintenance Advantages of	S*	37
Distributed Control System, Call Processing in a	S*	31
DME for Microwave Landing System, Precision, F. Chiarini, M. Gori, G. Corazza, and G. Falciasecca	4	292
Dynamic Processor Overload Control for SPC Switching Systems, P. Somoza and A. Guerrero	1	37
ESCU Electromechanical Switching Enhancement, C. Dall'Olio, G. Lanzi and L. Pizzini	3	249
Electromechanical Switching Enhancement, ESCU, C. Dall'Olio, G. Lanzi, and L. Pizzini	3	249
Expandable Digital Switching Network for Distributed Control	S*	16
Evolution of the OPAS-II System, D. M. Davidson	3	184
FACE-Standard Central Laboratory	4	288
Flexible Modeling and Simulation for Control Processor Analysis, O. González Soto, J. A. García Higuera, C. Díaz Berzosa, and L. Martínez Míguez	1	26
Frequency Synthesizers for Radio Telephone Sets, Modern Multichannel, H. P. Ketterling	2	139
Front End Processor for Data Communication, R. H. Griffin	2	104
Fiber Optics:		
Optical Fiber Communication Systems in PTT Networkss, A. W. Horsley and E. S. Usher	4	268
Shipboard Optical Fiber Data Multiplex System, F. Pandozy	4	304
Galileo System Design Method, F. Vidondo, I. Lopez, and J. J. Girod	4	364
Grade of Service, Observation of the Effect of Killer Trunks on, F. Fernández Martínez and M. S. Aguilar Martínez	1	12
Hardware Structure of the Electronic Centralized Translation System, C. Maggio	3	235
Hierarchical System Control and its Application to the Bildschirmtext Center, R. Ertelt	4	334
Implementation of OPAS-I in the Swedish Telephone Network, P. Abrahamsson, E. Persson, and B. Jacobson	3	177
International Communications: Network Developments and Economics, B. M. Dawidziuk and H. F. Preston	2	127
International Data Switching, W. C. Crager	2	88
ITT Communications Operations Group Services, G. F. Knapp	2	83
ITT Contributions to the Ninth International Teletraffic Congress, J. R. de los Mozos Marqués	1	7
ITT System 12 – Designed from the Future	S*	3
ITT USTS Digital Tandem Switching Network, R. J. Gibbs	2	96

	Number	Page
ITT Communications Operations Group:		
ITT Communications Operations Group Services, G. F. Knapp	2	83
International Data Switching, W. C. Crager	2	86
ITT USTS Digital Tandem Switching Network, R. J. Gibbs	2	96
Front End Processor for Data Communication, R. H. Griffin	2	104
Marsplus Multi-Access Reservation System, A. R. Miller	2	111
Cost Effective Design of Local Access Networks Using Carrier Bulk Service Offerings, D. Minoli	2	118
ITT 1240 Digital Exchange:		
Call Processing in a Distributed Control System	S*	31
Digital Exchange for a Wide Range of Applications	S*	10
Expandable Digital Switching Network for Distributed Control	S*	16
ITT System 12 – Designed from the Future	S*	3
Maintenance Advantages of Distributed Control	S*	37
Network Terminals and Control Elements	S*	24
Off-Line Support System	S*	44
Overview	S*	2
Killer Trunks on Grade of Service, Observation of the Effect of, F. Fernández Martínez and M. S. Aguilar Martínez	1	12
Laboratoire Central de Télécommunications	4	312
Large Scale Integration and Packaging Technologies for Telecommunication Equipment, J. V. Baxter and K. A. Matthews	4	276
Large Scale Integration Techniques for Telecommunication, J. Cornu	4	376
Line Tester, Remote, E. Brading	3	202
Local Access Networks Using Common Carrier Bulk Service Offerings, Cost Effective Design of, D. Minoli	2	118
Local Call Simulator, W. Johner	3	217
Low Bit Rate Speech Transmission, F. R. Grassot and J. C. Voillaume	4	316
LSI and Packaging Technology for Telecommunication Equipment, J. V. Baxter and K. A. Matthews	4	276
LSI for Telecommunications, J. Cornu	4	376
Maintenance Advantages of Distributed Control	S*	37
Marsplus Multi-Access Reservation System, A. R. Miller	2	111
Microwave Landing System, Precision SME for, F. Chiarini, M. Gori, G. Corazza, and G. Falciasecca	4	292
Modern Multichannel Frequency Synthesizers for Radio Telephone Sets, H. P. Ketterling	2	139
Multiple Access System for Thin Route Networks, Demand Assignment, M. Moons and T. Tack	1	70
Network Terminals and Control Elements	S*	24
Ninth International Teletraffic Congress:		
Dynamic Processor Overload Control for SPC Switching Networks, P. Somoza, and A. Guerrero	1	37
Flexible Modeling and Simulation for Control Processor Analysis, O. González Soto, J. A. García Higuera, C. Díaz Berzosa, and L. Martínez Míguez	1	26
ITT Contributions to the Ninth International Teletraffic Congress, J. R. de los Mozos Marqués	1	7
Observation of the Effect of Killer Trunks on Grade of Service, F. Fernández Martínez and M. S. Aguilar Martínez	1	12
Parameters and Communication Efficiencies in the Modeling of a Packet Switching Network, L. Martínez Míguez and O. Gonzalez Soto	1	46
Planning and Organization of the Ninth International Teletraffic Congress, J. E. Villar de Villacián	1	3
Traffic Imbalance in Subscriber Matrices, G. Morales Andrés, A. Crespo de Pedro, and M. García Rafart	1	18
Observation of the Effect of Killer Trunks on Grade of Service, F. Fernández Martínez, and M. S. Aguilar Martínez	1	12
Off-Line Support System	S*	44
OPAS:		
Evolution of the OPAS-II System, D. M. Davidson	3	184
Implementation of OPAS-I in the Swedish Telephone Network, P. Abrahamsson, E. Persson and B. Jacobson	3	177
Operator Position Service Systems, J. R. Cass and A. D. Smith	3	169
OPAS-II System, Evolution of the, D. M. Davidson	3	184
Operator Position Assistance System, J. R. Cass and A. D. Smith	3	169

	Number	Page
Optical Fiber Communication Systems in PTT Networks, A. W. Horsley and E. S. Usher	4	268
Optical Fiber Data Multiplex System, Shipboard, F. Pandozy	4	304
Optical Link, Bidirectional, W. K. Koester and F. Mohr	4	342
Overload Control for SPC Switching Systems, Dynamic Processor, P. Somoza and A. Guerrero	1	37
Overview	1	2
Overview	2	82
Overview	3	162
Overview	4	258
Overview to Supplement	S*	2
Packaging Technology for Telecommunication, LSI and, J. V. Baxter and K. A. Matthews	4	276
Packet Switching Network, Parameters and Communication Efficiencies in the Modeling of a, L. Martínez Míguez and O. González Soto	1	46
Parameters and Communication Efficiencies in the Modeling of a Packet Switching Network, L. Martínez Míguez and O. González Soto	1	46
Pentaconta Exchange, Centralized Translation System for an International, F. Laliccia and M. Mayer	3	225
Peripheral Devices for the Unimat 4080 PABX, H. D. Siebel	1	57
Planning and Organization of Ninth International Teletraffic Congress, J. E. Villar de Villacían	1	3
Precision DME for Microwave Landing System, F. Chiarini, M. Gori, G. Corazza, and G. Falciasecca	4	292
Quality of Telephone Service, R. Mosch	2	146
Radars, Advanced Techniques for Battlefield Surveillance, J. M. Colin	4	323
Radar System for Meteorological Measurements, Zephyr, J. Isnard, M. Krass, and P. Stoll	1	63
Recent Achievements	1	76
Recent Achievements	2	153
Remote Line Tester, E. Brading	3	202
Shipboard Optical Fiber Data Multiplex System, F. Pandozy	4	304
SPC Switching Systems, Dynamic Processor Overload Control for, P. Somoza and A. Guerrero	1	37
Speech Transmission, Low Bit Rate, F. R. Grassot and J. C. Voillaume	4	316
Standard Eléctrica Research Center	4	350
Standard Elektrik Lorenz Research Center	4	330
Standard Telecommunication Laboratories	4	264
Standard Telefon og Kabelfabrik Laboratory	4	382
Subscriber Billing System, R. Cohen and J. B. Connell	3	192
Support System, Off-Line	S*	44
Technical Functions within a Multinational Company, J. Shields	4	259
Telecommunications Service Systems, L. A. Gimpelson	3	163
Telephone Service, Quality of, R. Mosch	2	146
Traffic Data, Automated System for the Acquisition of, L. Nombela	3	241
Traffic Imbalance in Subscriber Matrices, G. Morales Andrés, A. Crespo de Pedro and M. García Rafart	1	18
Translation System for an International Pentaconta Exchange, Centralized, F. Laliccia and M. Mayer	3	225
Trunk Equipment, Universal Call Simulator for Testing, R. M. Metzger and E. Staber	3	210
Unimat 4080 PABX, Peripheral Devices for the, H. D. Siebel	1	57
United States Patents Issued to ITT System:		
April–June 1979	1	75
July–September 1979	2	152
October–December 1979	3	234
Universal Call Simulador for Testing Trunk Equipment, R. M. Metzger and E. Staber	3	210
Zephyr Radar System for Meteorological Measurements, J. Isnard, M. Krass, and P. Stroll	1	63

* S = Supplement to Volume 55, number 2 (1980)

Recent Achievements

	Number	Page
Algerian Telephone Factory Inaugurated	2	156
Bitplexer for Telegraph and Data Transmission	2	153
Bothway Infrared Communication	2	159
Currency Exchange Terminal for Heathrow Airport	1	76
Data Modems 2082 and 2084	2	160
Deep-Water Optical Fiber Undersea Telephone Cable Installed	2	156
Electronically Scanned Antenna	2	159
Fiber Optic Transmission Systems for British Post Office	1	80
Field Deployable Optical Cable	2	155
Field Trial of 120 Mbit s^{-1} TDMA System	2	157
Fifth Metaconta 11 A Exchange for Finland	1	77
First Undersea Telephone Cable System in the Indian Ocean	1	77
Gunn Diode Millimetric Wave Sources	1	77
Hundredth TXE 4 Electronic Exchange for British Post Office	2	153
Main Cable with 320 Optical Fibers Installed	2	154
Major Orders for Push-Button Telephones	2	154
Microprocessor Controlled Trunk Test Desk	1	78
Military VHF Equipment	2	155
New Exchanges for Dakar	1	79
Oil Pollution Control Equipment for Japanese Built Tankers	2	157
Parametric Amplifier for Spacelab	1	80
Rack Mounted Data Modems RMS 80	1	79
Remote Acquisition Unit Qulifies for Spacelab	1	79
State-of-the-Art Aluminum Electrolytic Capacitor	1	78
Synoptical Didactic Board	2	157
TAT-7 Transatlantic Telecommunications Link	1	80
Three Major Companies Develop Fiber Optic Standard	2	158
Unimat 4070 Medium Size PABX	2	158
Viewdata Center for Deutsche Bundespost	1	76
Wide-Area Radiopagers for British Post Office	2	160

ELECTRICAL COMMUNICATION INDEX VOLUME 55 (1980)

Author Index

	Number	Page
Abrahamsson, P., Jacobson, B., Persson, E., Implementation of OPAS-I in the Swedish Telephone Network	3	177
Aguilar Martínez, M. S., Fernández Martínez, F., Observation of the Effect of Killer Trunks on Grade of Service	1	12
Baxter, J. V., Matthews, K. A., Large Scale Integration and Packaging Technologies for Telecommunication Equipment	4	276
Braaten, J., Gjerløw, J., Digital Processing Techniques for Integrated Service Networks	4	386
Brading, E., Remote Line Tester	3	202
Caballero, P. A., de los Rios, F. J., Puebla, I., Computer Program for Optimizing the Structure of Analog/Digital Urban Networks	4	354
Cass, J. R., Smith, A. D., Operator Position Assistance System	3	169
Chiarini, F., Gori, M., Corazza, G., Falciasecca, G., Precision DME for Microwave Landing System	4	292
Cohen, R., Connell, J. B., Subscriber Billing System	3	192
Colin, J. M., Advanced Techniques for Battlefield Surveillance Radars	4	323
Connell, J. B.: *see* Cohen, R.		
Corazza, G.: *see* Chiarini, F.		
Cornu, J., Large Scale Integration Techniques for Telecommunication	4	376
Crager, W. C., International Data Switching	2	88
Crespo de Pedro, A., García Rafart, M., Morales Andrés, G., Traffic Imbalance in Subscriber Matrices	1	18
Dall'Olio, C., Lanzi, G., Pizzini, L., ESCU/CORU System for Electromechanical Switching Enhancement	3	249
Davidson, D. M., Evolution of the OPAS-II System	3	184
Dawidziuk, B. M., Preston, H. F., International Communications: Network Developments and Economics	2	127
de los Mozos Marqués, J. R., ITT Contributions to the Ninth International Teletraffic Congress	1	7
de los Rios, F. J.: *see* Caballero, P. A.		
Díaz Berzosa, C., García Higuera, J. A., González Soto, O., Martínez Míguez, L., Flexible Modeling and Simulation for Control Processor Analysis	1	26
Ertelt, R., Hierarchical System Control and its Application to the Bildschirmtext Center	4	334
Falciasecca, G.: *see* Chiarini, F.		
Fernández Martínez, F.: *see* Aguilar Martínez, M. S.		
García Higuera, J. A.: *see* Díaz Berzosa, C.		
García Rafart, M.: *see* Crespo de Pedro, A.		
Gibbs, R. J., ITT USTS Digital Tandem Switching Network	2	96
Gimpelson, L. A., Telecommunications Service Systems	3	163
Girod, J. J., Vidondo, F., Lopez, I., Galileo System Design Method	4	364
Gjerløw, J.: *see* Braaten, J.		
González Soto, O.: *see* Díaz Berzosa, C.		
González Soto, O., Martínez Míguez, L., Parameters and Communications Efficiencies in the Modeling of a Packet Switching Networks	1	46
Gori, M.: *see* Chiarini, F.		
Grassot, F. R., Voillaume, J. C., Low Bit Rate Speech Transmission	4	316
Griffin, R. H., Front End Processor for Data Communication	2	104
Guerrero, A., Somoza, A., Dynamic Processor Overload Control for SPC Switching Systems	1	37
Horsley, A. W., Usher, E. S., Optical Fiber Communication Systems in PTT Networks	4	268
Isnard, J., Krass, M., Stoll, P., Zephyr Radar System for Meteorological Measurements	1	63
Jacobson, B.: *see* Abrahamsson, P.		
Johner, W., Local Call Simulator	3	217
Johner, W., Call Diverter	3	221
Ketterling, H. P., Modern Multichannel Frequency Synthesizers for Radio Telephone Sets	2	139
Knapp, G. F., ITT Communications Operations Group Services	2	83
Koester, W. K., Mohr, F. A., Bidirectional Optical Link	4	342
Krass, M.: *see* Isnard, J.		
Laliccia, F., Mayer, M., Centralized Translation System for an International Pentaconta Exchange	3	225
Lanzi, G.: *see* Dall'Olio		
Lopez, I.: *see* Girod, J. J.		
Maggio, C., Hardware Structure of the Electronic Centralized Translation System	3	235
Martínez Míguez, L.: *see* Díaz Berzosa, C.		
Martínez Míguez, L.: *see* González Soto, O.		
Matthews, K. A.: *see* Baxter, J. V.		
Mayer, M.: *see* Laliccia, F.		
Metzger, R. M., Staber, E., Universal Call Simulator for Testing Trunk Equipment	3	210
Miller, A. R., Marsplus Multi-Access Reservation System	2	111
Minoli, D., Cost Effective Design of Local Access Networks Using Common Carrier Bulk Service Offerings	2	118
Mohr, F. A.: *see* Koester, W. K.		
Moons, M., Tack, T., Demand Assignment Multiple Access System for Thin Route Networks	1	70
Morales Andrés, G.: *see* Crespo de Pedro, A.		
Mosch, R., Quality of Telephone Service	2	146

	Number	Page
Nombela, L. F., Automatic Traffic Data Acquisition Network	3	241
Pandozy, F., Shipboard Optical Fiber Data Multiplex System	4	304
Persson, E.: *see* Abrahamsson, P.		
Pizzini, L.: *see* Dall'Olio, C.		
Preston, H. F.: *see* Dawidziuk, B. M.		
Puebla, I.: *see* Caballero, P. A.		
Shields, J., Technical Functions within a Multinational Company	4	259
Siebel, H. D., Peripheral Devices for the Unimat 4080 PABX	1	57
Smith, A. D.: *see* Cass, J. R.		
Somoza, A.: *see* Guerrero, A.		
Staber, E.: *see* Metzger, R. M.		
Stoll, P.: *see* Isnard, J.		
Tack, T.: *see* Moons, M.		
Usher, E. S.: *see* Horsley, A. W.		
Vidondo, F.: *see* Girod, J. J.		
Villar de Villacían, J. E., Planning and Organization of the Ninth International Teletraffic Congress	1	3
Voillaume, J. C.: *see* Grassot, F.		